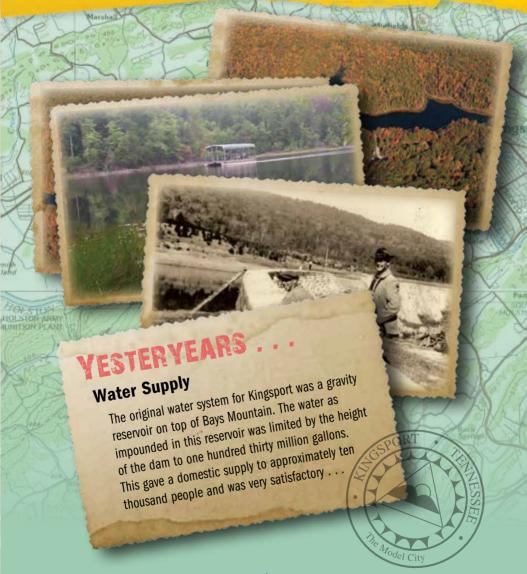
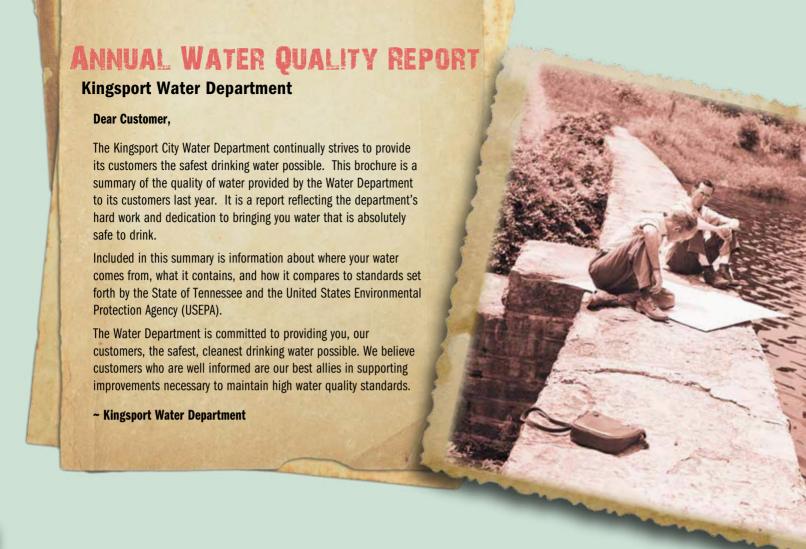
What good is history or the past without a present and future to look forward to?





Origin

Your water, which is surface water, comes from the South Fork Holston River. Our goal is to protect our water from contaminants and we have worked with the State to determine the vulnerability of our water source to potential contamination. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for the untreated water sources serving this water system. The SWAP Report assesses the susceptibility of untreated water sources to potential contamination. To ensure safe drinking water, all public water systems treat and routinely test their water. Water sources have been rated as reasonably susceptible, moderately susceptible or slightly susceptible based on geologic factors and human activities in the vicinity of the water source. The Kingsport Water System sources rated as reasonably susceptible to potential contamination.

An explanation of Tennessee's Source Water Assessment Program, the Source Water Assessment summaries, susceptibility scorings and the overall TDEC report to the EPA can be viewed online at http://www.tn.gov/ environment/water/water-supply source-assessment. shtml or you may contact the Water System to obtain copies of specific assessments.

KINGSPORT'S PRESENT WATER PLANT AND SYSTEM

We serve approximately 34,600 households (resident/non-resident); The ability to treat 28 mgd (million gallons per day); 22 water tanks with 19 major pumping stations; storage capacity of 18 MG; 14 pressure zones; and more than 826 miles of water mains.

CROSS CONTAMINATION CONTROL

Over the next few months, the warm weather will bring people outdoors to work in their yards and gardens and begin getting swimming pools ready. The Kingsport Water System would like to ensure that our customers are aware of the dangers associated with these activities. An ordinary garden hose is a common way to contaminate a water supply. When the hose is submersed in any liquid or attached to certain devices used to spray pesticides or herbicides, this forms a cross connection. A cross connection is a situation where a possible source of contamination is directly linked to our public water system. If the end of your hose is connected to a chemical container, swimming pool or other contaminant during a water main break or fire, the substance can be siphoned back into the water system. This condition, known as back siphonage, could cause a public health hazard. Devices are available to prevent this problem; however the best solution is to always be careful

Please help us provide a safe supply of water to all of our customers. Remember: never place your water hose in anything you would not want to drink. For more information on cross connections how you use your water hose.

and how to protect against them, call our office at: (423) 224-2635.

As water travels over the surface of the land it dissolves naturally occurring minerals and, in some cases, radioactive material. It can also pick up substances resulting from the presence of animals or humans. Although these substances could be present in "raw" water, our water meets all of the EPA's health standards. We have tested for over 80 substances that may be present in our drinking water.

Substances that may be present in "raw" water include:

Microbial organisms, such as viruses and bacteria, which may be from sewage plants, septic systems, agricultural livestock operations and wildlife.

Inorganic compounds, such as salts and metals, which can be naturally occurring or result from storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.

Pesticides and herbicides, which may come from a variety of sources, such as agriculture, storm water runoff and residential uses.

Organic chemicals including synthetic and volatile organic chemicals, which are the by-products of industrial processes and petroleum production, and can also come from gas stations, storm water runoff and septic systems.

Radioactive material, which can be naturally occurring, or be the result of oil and/or gas production and mining activities.

We found all of these substances to be at safe levels.



YOU CAN HELP PROTECT THE ENVIRONMENT AND DRINKING WATER SOURCES

A few small steps can make an important difference in safeguarding lives and protecting the environment. Follow your medication prescriber's instructions and use all medications as instructed. If you do not use all of your prescribed or over-the-counter medication, you can take a few small steps to make a huge impact in safeguarding lives and protecting the environment by disposing of unused medicines properly: DO NOT FLUSH unused medications or POUR them down a sink or drain. These medications travel through pipes to the Wastewater Treatment Plant. Wastewater Treatment Plants are not designed to remove unused medications and can pass through the treatment process ultimately entering our waterways.

Unused medications can be disposed of at the Kingsport Police Department's DRUG DROP OFF ZONE located at the Justice Center. For more information please call 229-9433.

To learn more about pharmaceuticals and drinking water visit http://www.epa.gov/ppcp/.

WHO DO I CALL?

Questions about this report:

Contact Ron Haynes at 229-9410.

Questions or concerns about a potential cross connection?

Contact Ron Ison or Chris Housewright at 224-2635.

Questions concerning your bill, arranging for water service or reestablishing service?

Call Customer Service at 229-9416 or 229-9417.

To report water quality problems, low pressure, a broken water main, water leak in the streets or at the meter:

Call Customer Service at 229-9416 or 229-9417.

After hours emergency

Number - 246-9111

To report suspicious activity to any water facility, including treatment plants; water storage tank, fire hydrants, etc.

Call 911 or 229-9452.

For more information about the Storm Water Program or to report illegal discharges into the storm drain system,

Call (423) 224-2727.

If you are interested in learning more about the Water Department, or participating in the decision-making process, contact our Community Relations and Training Officer at 229-9413. The Board of Mayor and Aldermen meets on the 1st and 3rd Tuesday of each month at 7:00 p.m. in the City Hall Conference Room. This grants opportunities for the general public to voice opinions and/or concerns about decisions that affect the quality of their drinking water.

A TREATMENT SYSTEM

At the treatment plant, shortly after the "raw" (untreated) water is pumped to the treatment plant it enters the flash mix where it is treated with both chlorine and a coagulant.

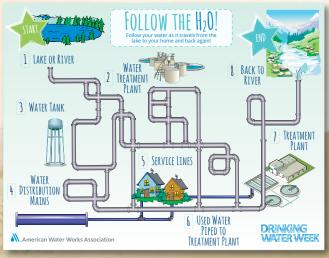
Beginning chlorinization here allows the chlorine a longer contact-time, thus giving the chlorine more time to react with microorganisms. Coagulants cause light, fine materials suspended in the water to clump together into larger heavier particles.

Next, the slow flow thru the sedimentation basin allows the heavier particles to settle out.

Sedimentation removes the majority of the sediment from the water.

Filtration, the next step, removes the remaining suspended material, lowering the turbidity level to well below the state's maximum containment level (mcl). The filtered water is then treated with chlorine for disinfection and fluoride to reduce tooth decay.

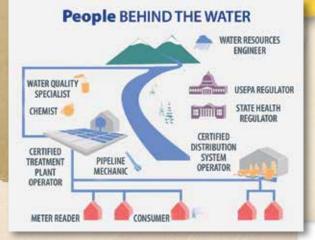
The "finished" water is then pumped into the distribution system for public use.



If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Kingsport is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead



The DIRECTORS AWARD of recognition, issued by the Partnership for Safe Water Program (an association of Water utilities and government), has been awarded to the City of Kingsport's Water Treatment Plant, for its' efforts to achieve excellence in water quality far beyond what is required by federal regulations.



2013 Water Quality Results

Your drinking water is regulated by the Tennessee Department of Environment and Conservation (TDEC) and the Environmental Protection Agency (EPA). The Kingsport Water Department regularly monitors for over 80 regulated contaminants to make sure your drinking water is safe. The results of our 2013 water quality monitoring are shown in the following tables. The substances listed in the tables below are the only substances that were detected above TDEC and EPA reporting levels. Reporting levels are the lowest level a contaminant can be detected with present laboratory methods, which are also known as minimum detection limits. We are proud to report that the City of Kingsport's water meets or exceeds all drinking water standards!

INTERMINANT VIOLATION? YES/NO STAL COLIFORM BACTERIA NO Turbidity NO Fluoride NO Lead² Nitrate³ Sodium	LEVEL FOUND 2.67%	RANGE DETECTED	DATE OF SAMPLE 2013	UNIT OF MEASUREMENT	0	MCL Presence of coliform bacteria in 5% of monthly samples	LIKELY SOUR OF CONTAMINA Naturally present in t	unoff
Turbidity Copper Fluoride NO NO NO NO NO NO NO NO NO N	2.67%	DETECTED	2013		0	V.		Lame'
Tal Coliform Bacteria NO Turbidity Copper Fluoride Lead² Nitrate³		0.05 - 0.07	0013		A\ <i>N</i>	11	Corrosion of houself	old plumbing systems; deposits; leaching from greservatives
Copper NO Fluoride NO Lead² NO Nitrate³		0 of 30 Samples	7/28/2011	NTU ppm	1.3	AL=1.3	Erosion of natural which promotes from fertilizer	deposits; water additive discharge strong teeth; discharge and aluminum factories and suminum factories
Fluoride Lead ² Nitrate ³	90th% = 0.4 ¹	0.330 1.09	2013		a 4	0 AL=15	Runoff fron	ousehold plumbing systems, on of natural deposits on fertilizer use; leaching from the fertilizer use; leaching from deposits
Nitrate ³		= 1.8 Sat Ab	of 30 mples ove AL 10/	04/2013	ррт	10 10 N/A	Erosion C	of natural deposits; used in water treatment
Sodium	NO NO	5.8		2013	ppp	N/A	80 By-	product of drinking water disinfection
TTHM ¹	МО	57.8	22.7 to 69.7	2013	ppb	N/A	π	Naturally present in the environment LIKELY Source
(Total trihalomethanes) Haloacetic Acids	ИО	43.6	12.7 to 71.1 1.0 - 1.4	2013	ррт	of MRDLG	MRDL	OF CONTABILIZATION Water additive used to control microbes
Haloau (HAA5) Total Organic Carbon Contaminant	NO	LEVEL FOUND	RANG DETECT	E OF SAM	MEASUR Measur	DUM 4	4	ome may be higher than at other homes in have your water tested and flush your tap for have your water tested and blue baby synt

² Infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at you are concerned about elevated lead levels in your home's water, you may wish and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at you are concerned about elevated lead levels in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish a community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish a community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish a community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish.

2 Infants holes, the general population. It is possible that lead levels at your may wish. seconds to '2 minutes before using tap water. Additional information is available from the Sate Drinking Water Hotline (1-800-426-4 (91)).

3 Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and if untreated may die. Symptoms include shortness of breath and blue baby syndrom. 3 Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and if untreated may die. Symptoms include shortness of breath and blue baby syndrome.

4 While your drinking water meets EPA's standard for trihalomethanes, it does contain low levels. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience.

4 While your drinking water meets EPA's standard for trihalomethanes, it does contain low levels. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience.

^{1 100%} of our samples were below the turbidity limit.

[&]quot;While your drinking water meets EPA's standard for trinalometrianes, it does contain low levels. Some people who d
problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

^{*}We have met all treatment technique requirements for Total Organic Carbon removal.

Special Information

Should I be Concerned?

Do I need to take special precautions?

Some individuals may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, persons with AIDS/HIV or other immune system disorders, some elderly, and infants can be particularly at risk of infection. These people should seek advice about drinking water from their healthcare providers. EPA guidelines on appropriate means to lessen the risk of infection by microbiological organisms, contaminants, and potential health effects are available from EPA's Safe Drinking Water Hotline (1-800-426-4791).

SAFETY STANDARDS

Is My water safe to drink?

The presence of contaminants does not necessarily indicate that the water poses a health risk. Most drinking water, including bottled water, contains small amounts of some contaminants. In order to ensure your tap water is safe, the Environmental Protection Agency (EPA) and Tennessee Department of Environment and Conservation prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health; however, they are not required to submit a water quality report to the public.

We are proud to report that Kingsport's water meets or surpasses all EPA and State health regulations. As demonstrated by the test results, the Kingsport Water Department conducts regular tests for numerous contaminants, and has found few. The existing contaminants are all



Definitions & Abbreviations

 $\underline{\mathbf{AL}}$ — Action Level, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

MCL — Maximum Contaminant Level, or the highest level of a contaminant **BDL** — Below Detection Limit. that is allowed in drinking water. MCLs are set as close to the MCLGs as

feasible using the best available treatment technology. MCLG — Maximum Contaminant Level Goal, or the level of a contaminant in drinking water below which there is no known or expected risk to health.

MRDL – Maximum Residual Disinfectant Level, or the highest level of MCLGs allow for a margin of safety. a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial

MRDLG — Maximum Residual Disinfectant Level Goal, or the level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

level of a contaminant in drinking water. Example: Kingsport adds a zincorthophosphate corrosion inhibitor to the drinking water to create a type of barrier in the underground lines and lines in the individual homes. This barrier comes between the flowing water and the pipe it is flowing through in order to keep contaminants that may come from the pipes from entering the water. Turbidity Level — A measure of the cloudiness of water; it is a good indicator

that our filtration system is functioning properly. <u>Units of Measure</u> — Definitions for units of measure used in the CCR:

- ppm or mg/L Parts per million or milligrams per liter, explained in terms of money as one penny in \$10,000.
- ppb or mcg/L Parts per billion or micrograms per liter, explained in terms of money as one penny in \$10,000,000.
- **pCi/L** Picocuries per liter (a measure of radioactivity).
- NTU Nephelometric Turbidity Units—Turbidity is a measure of the clarity of the water. Turbidity in excess of 5 NTUs is just noticible to the average person.

1ppb = 1 pinch of salt in a 10 ton bag of chips